

## **Appendix A:**

### **Synthetic Control Design Parameters: Exemplary PCR Components and Reaction Parameters**

#### **1. Components (25 $\mu$ l reaction)**

dH <sub>2</sub> O	14.5 $\mu$ l
10X PCR Buffer	2.5 $\mu$ l
MgCl <sub>2</sub> (25mM)	2.5 $\mu$ l
dNTPs (2.0 mM)	2.5 $\mu$ l
Primers (10 $\mu$ M)	1.0 $\mu$ l
Amplitaq Gold 0.6U/ $\mu$ l)	1.0 $\mu$ l
Template (10 $\mu$ M mix)	1.0 $\mu$ l

#### **2. Reaction Parameters**

94°	10 minutes	
94°	45 seconds	5 Cycles
60°	45 seconds	
72°	45 seconds	
94°	45 seconds	25 Cycles
60°	45 seconds	
72°	45 seconds	
72°	5 minutes	
4°	$\infty$	